ABSTRACT

Systems, methods, and equipment for use in the management of network topology and bandwidth for computing networks are provided. In an illustrative implementation of a device acting as a patch panel is provided. The patch panel works on both the physical wire and on the frequencies of the wire to route data to appropriate destination points. For example, both ADSL and telephony could be bridged among copper wires, using several independent busses. Home Phone Network Alliance Association (HPNA) standardized data could either be bridged among wires, or connected to an internal switching device, that would store and forward the native Ethernet packets used by HomePNA in a way similar to that done by Ethernet switches today. Additionally, an Ethernet uplink could attach the HPNA ports to a larger network or to a DSL Modem, and HPNA/ADSL could be removed from wires that might have privacy concerns or otherwise need filters to perform properly.